Aquacultural Engineering 1 (1982) 319–320

CONTENTS OF VOLUME 1

Number 1, January 1982

Editorial 1

Photoelectric Measurement of Lobster (*Homarus americanus*) Response to Feed Attractants 5
ROBERT C. BAYER, JOHN RILEY, JAMES H. RITTENBURG, DALE F. LEAVITT and MARGIE LEE GALLAGHER (USA)

Grading of Farmed Eels by Means of Meshwire Boxes 11
H. KOOPS and H. KUHLMANN (West Germany)

The Growth of Turbot (*Scophthalmus maximus* (L.)) in Recirculating Systems. . . . 23
M. G. POXTON, K. R. MURRAY and B. T. LINFOOT (UK)

A Case for Fisheries Engineering and its Application to the Planning of Coastal Aquaculture Facilities in Japan 35
JUICHI KATOH (Japan)

Automation in Stock-Culture Maintenance and Juvenile Separation of the Mysid *Mysidopsis bahia* (Molenock) 45
PHILIPPE LÉGER and PATRICK SORGELOOS (Belgium)

The Origins of the French Oyster Industry 55
R. G. KIRK (Belgium)

Design and Development of a Flowing Bed Reactor for Brine Shrimp Culture . . . 63
D. E. BRUNE (USA)

The Role of a Food Engineer in Fish Diet Research and Formula Development. . . 71
GEORGE M. PIGOTT (USA)

Number 2, May 1982

An Improved Harvesting Net for Freshwater Prawns 81
MICHAEL R. WILLIAMSON and JAW-KAI WANG (USA)

Application of Simple Dynamic Response Analysis to a Recirculating Aquaculture System – A Review 93
L. R. WEATHERLEY (UK)

High Density Flow-Through Culturing of Brine Shrimp *Artemia* on Inert Feeds – Preliminary Results with a Modified Culture System 115
PATRICE BRISSET, DANNY VERSICHELE, ETIENNE BOSSUYT, LUC DE RUYCK and PATRICK SORGELOOS (Belgium)

Intensive Carp *Cyprinus carpio* (L.) Rearing in a Farm Pond in Southern Germany and Its Effects on Water Quality 121
M. v. LUKOWICZ (West Germany)

Reciprocating Biofilter for Water Reuse in Aquaculture 139
M. H. PALLER and W. M. LEWIS (USA)

Aquacultural Engineering 1 (1982) – © Applied Science Publishers Ltd, England, 1982
Printed in Great Britain

Number 3, September 1982

Water Quality Criteria for Marine Fisheries 153
M. G. POXTON and S. B. ALLOUSE (UK)

New Oyster On-Growing Container for German Mariculture Operations 193
THOMAS NEUDECKER (West Germany)

Continuous Production of Microalgae Using a Scouring Film Reactor 205
T. H. ANDERSON and D. E. BRUNE (USA)

Engineering Aspects of a New Process for Producing Dry Larval Feed 215
GEORGE M. PIGOTT, NANCY E. HECK, RICHARD D. STOCKARD and JOHN E. HALVER (USA)

Short Communication

Presentation de Techniques d'Incubation pour Oeufs Pélagiques de Poissons Marins 227
N. DEVAUCHELLE and T. CHOPIN (France)

Book Reviews

Aquacultural Engineering. By F. W. Wheaton. John Wiley & Sons Inc., New York, 1977 235

Fish and Invertebrate Culture: Water Management in Closed Systems. By S. Spotte. John Wiley & Sons Inc., New York, 1979 236

Number 4, November 1982

Construction and Use of Free-Standing Solar Silos as Combined Mass Algal/Fish Culture Units 239
BARRY A. COSTA-PIERCE (USA)

Computer Modeling of the Diurnal Oxygen Levels in a Stillwater Aquaculture Pond 245
D. I. MEYER and D. E. BRUNE (USA)

International Study on *Artemia*. XVIII. The Hatching Rate of *Artemia* Cysts – A Comparative Study 263
PAUL VANHAECKE and PATRICK SORGELOOS (Belgium)

The Performance and Design of Packed Column Aeration Systems for Aquaculture 275
GARY E. HACKNEY and JOHN E. COLT (USA)

Body Dimensions of Farmed Eels (*Anguilla anguilla* L.) in Relation to Condition Factor, Grading, Sex and Feeding 297
B. KNIGHTS (UK)

Pond Culturing of Crawfish in the Southern United States. 311
T. B. LAWSON and F. W. WHEATON (USA)

Contents of Volume 1 319